TRIAX

Freeview +HD

FREEVIEW™ HD TV recorder
T2-HD 217 PVR

500GB Recording up to approx. 250hrs for SD recording or 125hrs for HD services.

Part No. 305201

OPERATING MANUAL

digital Certification mark Approved product

Check you can get FREEVIEW HD in your area. Text your postcode, followed by your house number or name to **80560***. Or visit **www.FREEVIEW.co.uk**
*e.g. NW9 6NY 1 (Costs no more than a normal text.)

The FREEVIEW service is subject to coverage. An aerial upgrade may be required.
The FREEVIEW, FREEVIEW+, FREEVIEW HD and FREEVIEW+ HD words and logos are trade marks of DTV Services LTD. DTV Services Ltd 2002, 2008.

Operating Manual

- The illustrations and the OSD in this operation manual are for explanation and guidance purposes only.
- The examples used throughout this manual are based on the T2-HD 217 model.

Dear Triax customer

Thank you for purchasing the **TRIAX T2-HD 217 (FREEVIEW™ HD TV recorder**).
To ensure safety and many years of trouble-free operation, please read the **Important Safety Precautions** carefully before using this product.

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Introduction

Important Safety Precautions

- Cleaning - Unplug the AC power adapter from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
- Use a soft damp cloth to gently wipe the product when it is dirty. To protect the product, do not use a chemical cloth to clean it. Chemicals may cause damage or cracks in the casing of the product.
- Water and moisture - Do not expose the unit to wet or damp conditions.
- Do not place vases or any other water-filled containers on this product. The water may spill onto the product causing fire or electric shock.
- Ventilation - The vents and other openings in the casing are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
- Heat sources - Keep the product away from heat sources such as direct sunlight, radiators, heaters, stoves and other heat-generating products (including amplifiers).
- To prevent fire, never place any type of candle or naked flames on the top or near the product.
- The product uses power even in Standby. Unplug the product from the AC outlet when you are not using it.
- Servicing - Do not attempt to service the product yourself. Removing covers can expose you to electric shock and other dangerous conditions. Maintenance should be performed by a suitably qualified person.

Introduction

Remote Control Unit

1 LIBRARY
Opens the library screen where your recordings are stored

2 MUTE
Volume on/off

3 NUMBER PAD
Select the channel number directly by entering its number. Set the page in digital text mode

4 REC
Use to record a programme and schedule recordings

5 PLAYBACK CONTROLS
Play, Pause, Stop, Fast Forward, Rewind, Jump Forward / Back

6 NAVIGATION ▲▼◀▶ (Cursor)
Move up/down/left/right in menus and on screen displays (Page 11)
OK
Confirm selection in menu/on-screen display

7 VOL+/-
Increase/decrease the volume (Page 10)

8 BACK
Return to the previous “MENU” screen

9 TEXT
Display Digital Text (Page 25)

10 AD
Switch Audio Description on/off (Page 19)

11 A/V
Switch to the A/V input (Page 10)

12 SUBT
Switch subtitles on/off (Page 20)

13 HDMI
Select HDMI resolution 576p, 720p, 1080i and 1080p (Page 18)

14 ⏻ (Standby/On)
Switch between standby and on (Page 10)

15 LAST
Toggles between the current channel and the previous channel (Page 10)

16 GUIDE
Display the Electronic Programme Guide (Page 12)

17 PROG +/-
Select the channel (Up/Down)
Move one page at a time when in menu screens

18 MENU
“MENU” screen on/off (Page 17)

19 INFO
Displays programme information (Page 10)

20 EXIT
Closes the “MENU” screen

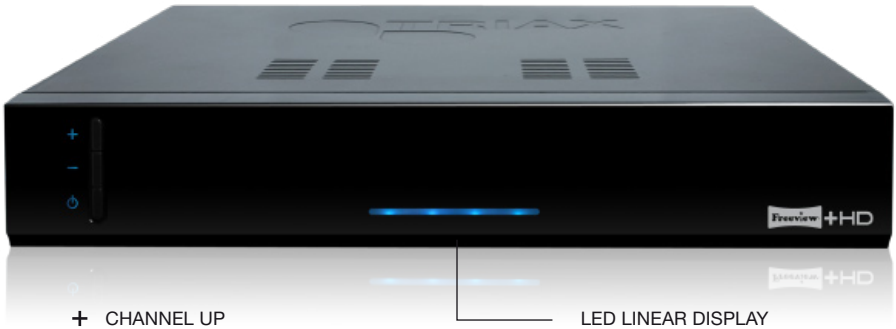
21 COLOUR BUTTONS
For interactive use and navigating menus

22 AUDIO
Select the desired audio language (Page 10)

23 WIDE
Adjust the aspect ratio (page 18)

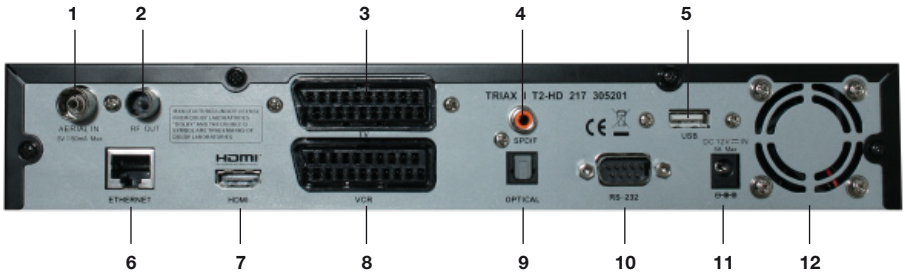
Introduction

Receiver (Front View)



\+ CHANNEL UP
– CHANNEL DOWN
⏻ STANDBY BUTTON

Receiver (Rear View)



1 RF IN (Antenna in)
2 RF OUT (Antenna out)
3 TV (SCART)
4 SPDIF (Digital audio output)
5 USB terminal - For service only
6 ETHERNET port - for future services
7 HDMI™ socket
8 VCR (SCART)
9 Optical SPDIF (Digital audio output)
10 RS232 - For Service
11 12V DC input
12 Fan

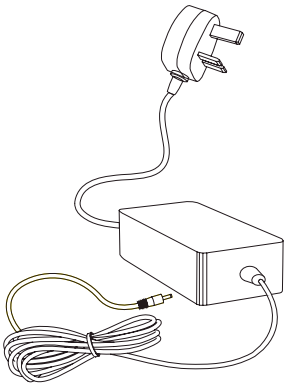
Introduction

Supplied Accessories

Remote Control Unit (x1)

Page 4

Power Adaptor (x1)

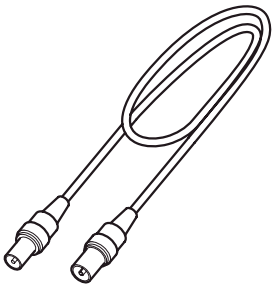


Page 9

HDMI Cable (x1)

Page 9

RF Cable (x1)



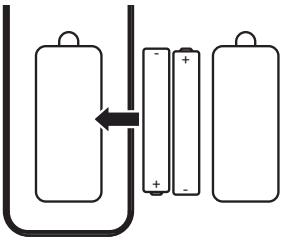
Page 9

- **Triax T2-HD 217 PVR Operating Manual**
- **“AAA” size zinc-carbon battery (x2) -** Page 7

Preparation

Inserting the batteries

Before using the Receiver for the first time, insert the two supplied “AAA” size zinc-carbon batteries. When the batteries become depleted and the remote control unit fails to operate, replace the batteries with new “AAA” size batteries.



1 Open the battery cover.

2 Insert the two supplied “AAA” size zinc-carbon batteries.

- Place batteries with their terminals corresponding to the (+) and (-) indications in the battery compartment.

3 Close the battery cover.

CAUTION

Improper use of batteries can result in chemical leakage or explosion.
Be sure to follow the instructions below.

- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause skin irritation. If you find any chemical leakage, wipe thoroughly with a cloth.
- If you will not be using the remote control unit for an extended period of time, remove the batteries from it.
- When replacing the batteries, use zinc-carbon batteries instead of alkaline ones.

Note on disposing batteries:
The batteries provided contain no harmful materials such as cadmium, lead or mercury.
Regulations concerning used batteries stipulate that batteries may no longer be thrown out with the household rubbish
Deposit any used batteries free of charge into the designated collection containers set up at your local recycling centre.

Using the remote control unit

Use the remote control unit by pointing it towards the front of the Receiver.
Objects between the remote control unit and sensor may prevent proper operation.

Cautions regarding the remote control unit

- Do not expose the remote control unit to shock. In addition, do not expose the remote control unit to liquids and do not place in an area with high humidity.
- Do not place the remote control unit under direct sunlight. The heat may cause deformation of the unit.
- The remote control unit may not work properly if the remote control sensor of the Receiver is under direct sunlight or strong lighting. In such cases, change the angle of the lighting or the Receiver, or operate the remote control unit closer to the remote control sensor.

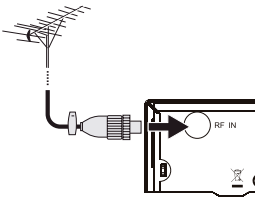
Quick Guide

Initial installation overview

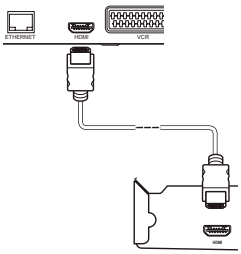
Follow the steps below one by one when using the Receiver for the first time

1 Preparation

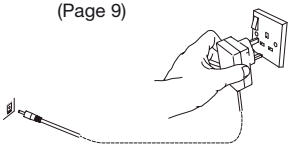
1 **Connect the antenna cable to the RF IN terminal** (Page 9)



2 **Connect the Receiver to your TV using the supplied HDMI cable** (Page 9)



3 **Connect the power adapter to the Receiver and switch socket on.** (Page 9)

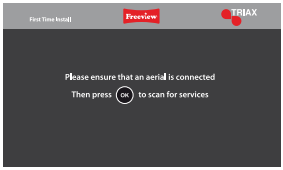


2 Run the Initial Settings

1 **Turn on the standy button on the Receiver** (Page 10)

2 **Run the first time installation** (Page 9)

Ensure the antenna is connected



Press OK to continue

Start Searching Channels

You will receive a message when installation is complete.

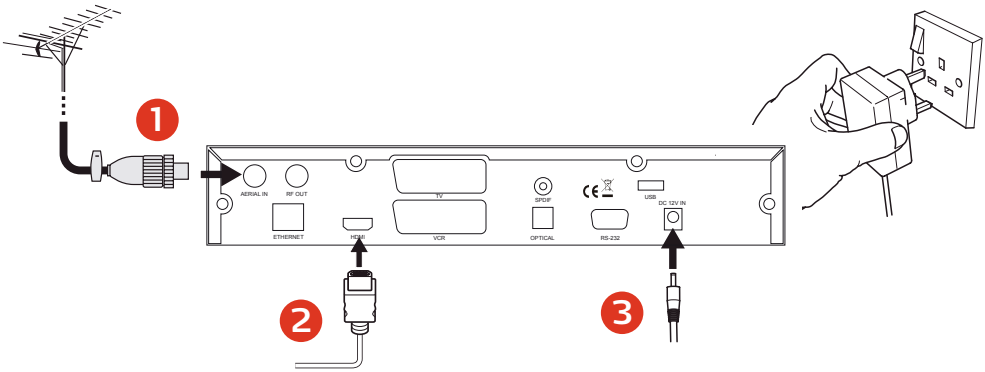
3 Watch TV

1 **Congratulations! You can now watch TV**

2 **If neccessary, adjust the antenna to attain maximum signal reception**

Quick Guide

Before turning on the power



1 **Connect the antenna (IEC 169-2)**
75 Ω coaxial cable, CAI Benchmarked cable such as Triax TX100
2 **Connect the HDMI cable**
3 **Connect the power adaptor and switch on at the socket**

Initial auto installation

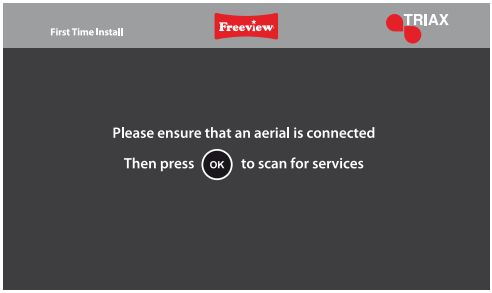
When the Receiver is powered on for the first time, the **First Time Installation** screen appears. Follow the on-screen instructions to search for all available channels.

1 **Ensure the antenna cable is connected before switching on.**
2 **Switch on the power socket.**
3 **Press ⏻ on the Receiver or Remote Control.**
- The First Time Installation screen is displayed.

4 **Press OK to start the channel search.**
- The Receiver will search for, sort and store all receivable channels.

NOTE

- The First Time Installation process will be aborted if the Receiver is left unattended for more than 30 minutes before searching for channels.
- **After the First Time Installation has been completed, the default PIN is automatically set to '0000'. To change the PIN setting, refer to Page 20.**



Watching TV

Daily operation

Switching On / Off

Standby mode

- **Select Standby mode**
  If the receiver is switched on, you can switch it to standby by pressing ⏻ on the remote control unit or the front of the receiver
- **Switching on from Standby**
  From standby, press ⏻ on the remote control unit or front of the receiver.

NOTE

- If you are not going to use this Receiver for long periods of time, be sure to remove the power adapter from the supply.
- A small amount of electrical power is still consumed when the Receiver is in standby mode.

Adjusting the Volume

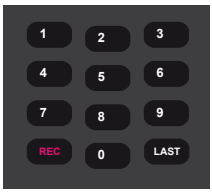
Press the **VOL+** button to increase the volume and the **VOL-** button to decrease the volume.

- We advise setting the volume to full on the receiver and then use the TV remote for adjusting the volume as normal

Changing Channels

With PROG +/-

With number pad



Key desired channel number (refer to channel list)

Switching Between Channels

Switch between the current channel and the previous channel by pressing **LAST.** Each press of the **LAST** button will toggle between the current channel and the previous channel

Programme Information

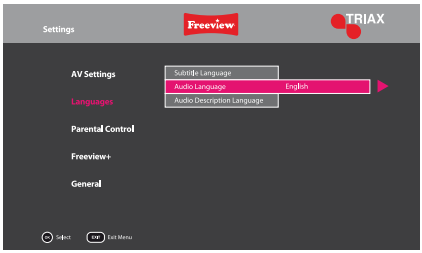
1 Press the **INFO** button once to display current time, channel information, programme name and start/finish times of selected programmes.
2 Press the **INFO** button again to display additional information about the current programme.

Selecting a Video Output Source

Once the receiver is connected to your TV using either a HDMI cable or SCART cable, you can select the appropriate output source by pressing **A/V** on the remote control unit.

Selecting an Audio Language

Some programmes are broadcast with multiple audio channels. Press **AUDIO** to display the audio menu.



1 Press ▲/▼ to select the desired channel.
2 Press **OK** to confirm the audio channel.

Watching TV

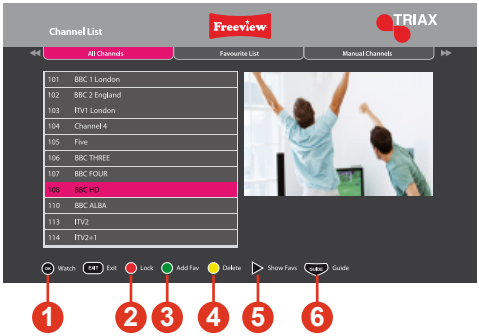
Channel list

Basic Operation

- **Display / Close the Channel List**

Press OK on the remote control while watching TV to access Channel List Menu **or**

1 Press **MENU**
2 Press ▼ to select the channel option from the list.
3 Press **OK**



The channel list allows you to hide, and delete channels, setup a favourites channel list, setup a manual recording and view the list of free to air channels that you have added.

- **Navigating the Channel List**

❶ **Select a channel.**
Press ▲/▼ to highlight a channel.
Press **OK** to watch the channel.

Useful Functions

❷ **Lock a channel.**
You can lock a channel to prevent children viewing scenes of an adult nature.

1 Press ▲/▼ to select the channel you want to lock.
2 Press the coloured button. A padlock icon will appear next to the channel name.

NOTE

- If parental controls are enabled (Page 21) the parental settings PIN must be entered before a channel can be locked / unlocked.
- To unlock a channel, select the channel using the ▲/▼ buttons and press the **RED** coloured button.

❸ **Set a channel as a favourite.**
You can set a channel as a favourite for quick access. All favourite channels will be displayed in the favourites list.

1 Press ▲/▼ to select the channel you want to add to the favourites list.
2 Press the coloured button.
- The **Favourites List** will be shown listing all favourite channels and the channel you have just added.

3 Press ◀ to return to the channel list.

❹ **Deleting a channel.**
1 Press ▲/▼ to select the channel you want to delete.
2 Press the coloured button.
- The delete channel screen willl be displayed. You can choose to delete the channel or cancel.

NOTE

- To view a channel once it's been deleted, you will need to perform a First Time Installation (Page 24)

❺ **Viewing the favourites list.**
1 Press ▶ to view the **Favourites List**.
- While viewing the favourites list, you can select and watch channels in the same way as the channel list.

2 Press ◀ to return to the channel list.

❻ **View the EPG.**
1 To view the EPG (Page 12) press the GUIDE button on the remote control unit.

The Guide Window

EPG

Navigation

You can open the guide window by pressing the GUIDE button on the remote control. The guide shows you all of the programmes and channels available for the next 8 days.

Use the ▲ and ▼ buttons to select different channels. You can use the **PROG+** and **PROG-** buttons to move one page at a time.

- Move backwards 2 hours.
- Move forwards 2 hours.
- Move backwards 24 hours.
- Move forwards 24 hours.

When you have chosen your programme, press the OK button to watch it.

AD	This programme has audio description
DD	This programme is broadcast with Dolby Digital
DOLBY DIGITAL PLUS	This programme is broadcast with Dolby Digital Plus
G	This programme contains guidance information
HD	This programme is broadcast in high definition
®	This programme is scheduled to be recorded
	This programme has been set a reminder
SPLIT	This is a split event programme (in 2 parts)
SUB	This programme has subtitles
TXT	This programme has digital text available

Watching TV

Recording a Programme

Pausing Live TV

This function is very useful if you are watching a programme and are interrupted.

You can rewind a programme you are watching at any time by pressing the ◂◂ button.

To pause live TV, press the II button on the remote control.

The time counter will start and shows the amount of time the programme has been paused. The linear display on the digital TV recorder will flash.

To continue watching TV, press the II or ▸ button again and the programme will begin from where you left off. The linear display on the digital TV recorder will stop flashing.

You can fast forward, and fast rewind using the ◂◂ and ▸▸ buttons. The speed and direction are shown on the screen. To change the speed press the ◂◂ and ▸▸ buttons again.

To go back to live TV, press the ■ button. The linear display will turn off.

Series Link

A series link will record all programmes in a series.

For example, if you set it to record a programme and series link was set, then each new episode in the current series will be recorded automatically.

To set a series link, choose the programme to be recorded in the Guide window and press the record button.

You will be asked whether you want to record an entire series or just the current programme.

Press OK to select the required option.

Programmes to be recorded are added to a Scheduled Recordings folder.

NOTE

- Not all programmes are part of a series. If a series has already started, you can only record the remaining episodes in the series.
- Series link can also be activated in the scheduled recordings window

Setting a Recording

You can record two programmes at the same time using this digital TV recorder or record one channel while watching another.

Select a programme you want to record and then press the REC button to set the recording. When a recording has been set the record icon is shown before the programme name.

When the digital TV recorder starts to record, the linear LED display on the front of the unit will pulse.

NOTE

- You can change a channel and watch another programme or recording when the digital TV recorder is recording.
- You can set the recording by pressing REC while watching a programme or highlighting a programme in the EPG and pressing REC

Watching TV

Recording a Programme

To View Scheduled Recordings

Select **Menu** and choose **Scheduled Recordings**

While in the Scheduled Recordings window:

To delete a scheduled recording, highlight the programme to be deleted and press the button

To series link a scheduled recording, highlight the desired programme and press the button

To remove a series link from a scheduled recording, highlight the programme and press the button

Setting a Reminder

You can use the reminder function to let you know when a programme is going to start.

Press Guide button to access the guide window and use the **navigation pad** to select a programme.

Press the OK button to set the reminder.

When the reminder has been set a clock icon is shown before the programme name.

NOTE

- To cancel a programme reminder, highlight the programme where the reminder has been set and press the **OK** button. The clock will disappear and the reminder will be cancelled.

Recording Clashes

If you try to record more than two programmes or view a third channel at the same time, you will see a warning screen with a list of options for you to choose. An example screen is shown below.

WARNING
Recording Clash
Your Freeview Recorder is already recording two different channels
What would you like to do?
Cancel Recording 'Watch my Chops on CBBC'
Stop Recording 'In the Night Garden' on BBC HD
Stop Recording 'Horrid Henry' on CITV
OK Select
EXIT Exit Menu

You will be able to cancel recordings, stop recordings or even scedule the recording for a different time if the programme is being broadcast again at a later date or time.

Use the ▲ and ▼ buttons to select an option.

Press the OK button to confirm

NOTE

- The list of options available to you on the recording clash warning screen will depend on the programmes being recorded.

The Library Window

Navigation

Recordings Library
Freeview
TRIAX
08/10/2010 BBC HD
8:00pm - 9:00pm Heroes Series 3
One of us, One of them (Part 3 of 25) Drama series in which people all over the world deal with their newly discovered superpowers. Hiro and Ando track Daphne to Germany while tracy Strauss searches for answers about Niki. [DRAMA]
AD
SUB
70% Remaining
Top Gear BBC2 05/10 Viewed P
Heroes BBC HD 08/10 Playing HD P
Strictly Come Dancing BBC HD 01/11 Recorded HD P
I'm a Celebrity Get Me Out of Here ITV1 16/11 Recording R S
Spooks BBC 1 17/11 Scheduled R S
In the Night Garden BBC HD 21/11 Scheduled HD
Stop
GUIDE
Guide
Protect
Preview
Delete
OK
Select
EXIT
Exit

You can open the library window by pressing the **LIBRARY** button on the remote control. This shows all of your recorded programmes.

Use the ▲ and ▼ buttons to select each programme. You can use the **PROG+** and **PROG-** buttons to move one page at a time.

AD)))	This programme has audio description
DD	This programme is broadcast with Dolby Digital
DOLBY DIGITAL PLUS	This programme is broadcast with Dolby Digital Plus
G	This programme contains guidance information
HD	This programme is broadcast in high definition
R	This programme is scheduled to be recorded
	This programme has been set a reminder

SPLIT	This is a split event programme (in 2 parts)
SUB	This programme has subtitles
TXT	This programme has digital text available
P	This recording is protected and will not be deleted
S	This recording is part of a series
	Stops a recording or a preview
	This will protect or unprotect a recording
	This will preview a recorded programme
	This will delete recorded and scheduled programmes

The Library Window

Watching a Recording

Programmes that have finished recording are marked as 'Recorded'.

1. Use the ▲ and ▼ buttons to select a programme you want to watch.
2. Press the OK button to start playback.

NOTE

- You can start to watch back a programme that is recording and don't have to wait for it to finish.

Preview a Recording

You can preview a recorded programme in the preview window in the recordings library.

The status will show as **'Playing'**.

Protecting a Recording

You can protect a recording from being accidentally deleted by protecting it.

1. Use the ▲ and ▼ buttons to select a recording you want to protect.
2. Press the ● button to protect.

NOTE

- Your recording will not be overwritten or deleted when protected.
  (Unless you format the hard disk drive)

Unprotecting a Recording

To unprotect a recording, highlight the protected recording using the ▲ / ▼ buttons and press the ● button.

NOTE

- To delete a protected recording, you must unprotect it first.

Menu Operation

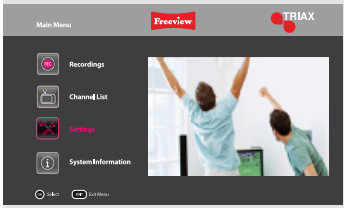
What is the Main Menu?

- You need to call up the **On Screen Display (OSD)** to perform settings for the Receiver. The OSD for the settings is called “MAIN MENU”
- The “MAIN MENU” enables various settings and adjustments.

Basic Operation

1 Display the MAIN MENU screen

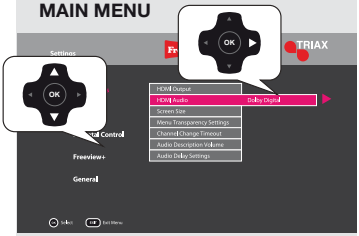
Press **MENU** and the “MAIN MENU” screen appears



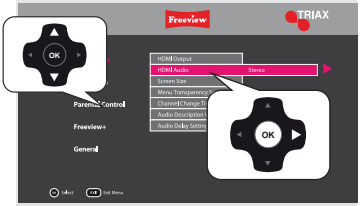
2 Selecting a menu or sub menu

Press ▲/▼ to select one of the main menu options. Press **OK** to display the option. Press ▲/▼ to select one of the sub menus. Press ▶ to display the sub menu options. Press ▶ to adjust the desired setting and then press **OK**. Press **BACK** to return the previous menu.

Selecting a sub-menu in the MAIN MENU



Selecting and adjusting options



3 Exit the MAIN MENU screen

Press **EXIT** to exit the MAIN MENU at any time. If you have not pressed **OK** before exiting, the desired setting will not be changed.

About the Guide Display

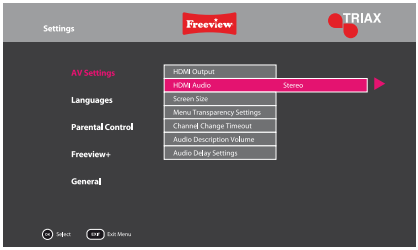
The guide display at the bottom of the MAIN MENU screen shows operation with the OSD

- The guide display is an operational guide for the remote control unit. The bar will change in accordance with each sub-menu and menu setting.

Item	
Programme Guide	View the EPG (Pg 12).
Channels	View the Channel List (Pg 11).
Library	Opens the Library screen where recordings are stored (Pg 15).
Scheduled Recordings	Shows list of future programmes to be recorded (Pg 14).
Settings	Adjust various settings for the Receiver (Pg 18).
Information	View system and software information for the Receiver.

Basic Adjustment

AV Settings



HDMI Video

Adjusts the video resolution when the receiver is connected to your TV using a HDMI cable. This allows you to watch High Definition (HD) TV.

Item	
576p	Sets the video resolution to 576p
720p	Sets the video resolution to 720p
1080i	Sets the video resolution to 1080i
1080p	Sets the video resolution to 1080p

NOTE

- Consult the documentation supplied with your TV to select the correct TV resolution.
- If your TV is not HD Ready but has a HDMI socket, select the 576p video resolution.

HDMI Audio

Adjusts the audio output type when the Receiver is connected to surround system using a HDMI cable. This allows you to enjoy realistic live sound.

Item	
Stereo	The Receiver will output Stereo sound when connected to a standard surround sound system using the HDMI cable.
Dolby Digital	The Receiver will output Dolby Digital surround sound when connected to a compatible surround sound system using the HDMI cable.

NOTE

- Only select Dolby Digital if you have a compatible surround sound system. If you choose this setting with a non-compatible sound system the audio will not be heard.
- Not all channels are broadcast with Dolby Digital sound.

SCART Output

Adjusts the video signal type when the Receiver is connected to your TV using a SCART cable.

Item	
RGB	This selects an RGB video signal type. The video signal will be split into separate red, green and blue signals to provide the best picture quality.
Composite (default)	This selects a composite video signal when RGB is not available.

NOTE

- If your TV is not compatible with RGB signals, select the composite video output.

Screen Size

Adjusts the screen size (aspect ratio) between 16:9 widescreen and various 4:3 picture sizes.

Item	
16:9 Widescreen	Displays a 16:9 widescreen picture. This ensures the best aspect ratio for widescreen TV's
4:3 Widescreen (16:9)	In this mode, the picture is stretched towards each side of the screen. This displays a picture similar to 16:9 widescreen on 4:3 TV's
4:3 Centre Cut Out	Displays a 4:3 picture in the centre of the screen. With some programmes, bars may appear on the left and right hand side of the screen.
4:3 Letterbox (16:9)	Displays a 16:9 picture in the centre of the screen. With some programmes, bars may appear on the top and bottom of the screen.

NOTE

- If you have connected the Receiver to a widescreen TV, you should select the 16:9 widescreen setting.
- The wide mode feature lets you adjust the screen size using the WIDE button on the remote control unit. Press WIDE to cycle through the available screen sizes while watching TV.
- If you have selected 16:9 widescreen in the AV settings menu, the wide mode will have no effect.
- Not all programmes are broadcast in widescreen format which may result in a black border around the programme. This setting can be useful to remove or minimise the border.

Basic Adjustment

AV Settings

Menu Transparency

This function allows you to adjust the transparency of the OSD's. The default setting is off

Item	
Off	The picture will not be visible behind the OSD
25%	The picture is partially visible behind the OSD
50%	The picture is mostly visible behind the OSD
75%	The picture is clearly visible behind the OSD

NOTE

- The menu transparency settings will not affect the main menu.

Channel Change Timeout

This function allows you to adjust the length of time the information screen is displayed if no other buttons are pressed.

Options are: 3, 5, 7 + 10 Seconds

Audio Description

Some programmes are broadcast with audio descriptions (AD) which provides a voice-over describing visual information such as scenery, body language and facial expressions.
Press **AD** on the remote control unit to toggle audio description on or off.

NOTE

- If audio description is available for a programme, the AD symbol will be displayed in the information screen (Page 10) and the EPG (Page 12)

Audio Description Volume

Adjusts the volume of the audio description when available.

1. Go to **Main Menu**, **Settings**, **Audio Description Volume**.
2. Change the volume.
3. Press OK to confirm.

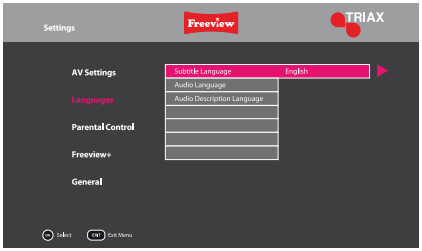
Audio Delay Settings

Synchronises the audio and video outputs when the Receiver is connected to a Dolby Digital Surround Sound System using the SPDIF (digital audio output) connection.

1. Press ◀/▶ to increase or decrease the audio delay time.
2. Press **EXIT** to complete the setting.

Basic Adjustment

Languages



Subtitle Language

This function allows you to set the default subtitle language to English, Welsh, Gaelic or Irish.

NOTE

- Some subtitle languages are available with enhanced subtitles. These provide additional information about the programme for the hard of hearing.

Switching on Subtitles

1 Press **SUBT** on the remote control unit to toggle subtitles on or off.

NOTE

- Not all programmes are broadcast with subtitles. If subtitles are available for a programme, the **SUBT** symbol will be displayed in the information screen (Page 10) and the EPG (Page 12).
- If subtitles are available they will be displayed at the bottom of the screen in the default subtitle language.

Audio Language

This function allows you to set the default audio language to English, Welsh, Gaelic or Irish.

Selecting Audio Languages

1 Press **AUDIO** on the remote control unit to toggle switch between the available audio languages.

NOTE

- Not all programmes are broadcast with alternative audio languages. If the selected audio language is not broadcast, English will be used.

Audio Description Language

This function allows you to set the default audio description (AD) to English, Welsh, Gaelic or Irish.

NOTE

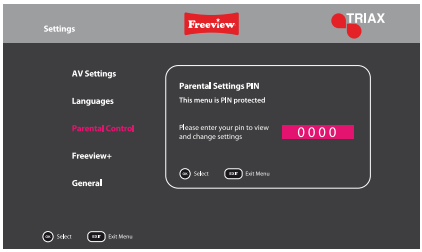
- Not all programmes are broadcast with alternative audio description languages. If the selected audio language is not broadcast, English will be used.

Basic Adjustment

Parental control

Parental Settings PIN

The Parental Control feature allows you to prevent accidental changes being made to the Receiver. In addition channels can be locked to prevent children viewing scenes of an adult nature.



The default personal identification number (PIN) must be entered before the parental control settings can be adjusted.

1 Enter the default four digit PIN (0000) using the numeric buttons.

NOTE

- If you have changed the default PIN, this must be entered before the parental control settings can be adjusted.

Guidance PIN for Recordings

This setting chooses if you want to enter a PIN before watching a recording that has guidance information. The default setting is Yes.

Allow First Time Installation

This function allows you to prevent a first time installation being performed without first entering the parental settings PIN.

Item	
Enabled	This will allow a first time installation to be performed without entering the parental settings PIN.
Disabled	This will prevent a first time installation to be performed unless the parental settings PIN is entered.

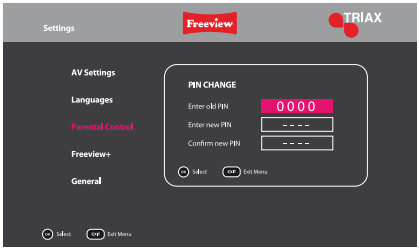
Allow Parental Changes

This setting chooses if you want to allow access to the parental menu without entering a PIN. The default setting is that you must enter a PIN.

Allow Hard Disk Drive Format

This setting chooses if you want to allow the hard disk drive to be formatted. Please note, this will delete all recordings stored in your library. A warning message will appear asking if you want to continue. NB. This will also delete any protected recordings.

Change PIN



This function allows you to change the PIN

Changing the Parental Settings PIN

1 Enter the default (0000) or current four digit PIN using the **0-9** numeric buttons.

2 Enter the new four digit PIN using the **0-9** numeric buttons.

3 Confirm the new four digit PIN using the **0-9** numeric buttons.

NOTE

- As a precautionary measure, make a note of your PIN on the back of this operational manual (see page 25). Keep it in a safe place where children cannot reach.

Basic Adjustment

Freeview+

Default Recording Mode

This setting chooses the default recording mode. You can set the HD Digital TV Recorder to always record in high definition or standard definition.

NOTE

- You can only record in high definition when the programme is being broadcast in high definition.

Add to Start of Recording

This changes the amount of time added before a recording starts.

Add to End of Recording

This changes the amount of time added at the end of a recording.

Live Pause Length

This sets the amount of time used for the background recording of live TV. The options are 60 minutes or 120 minutes.

Skip Forwards Time

This sets the default skip forwards time.

Skip Backwards Time

This sets the default skip backwards time.

NOTE

- You can use the skip forwards and backwards function when watching a recording by pressing the >| or |< buttons.

Auto Disk Management

This setting chooses if you want to enter a PIN before watching a recording that has guidance information. The default setting is Yes.

Show Available Space As

This sets how you want remaining space to be shown in the menus. You can choose from the percentage of space, hours of standard definition or hours of high definition available.

Format Hard Disk Drive

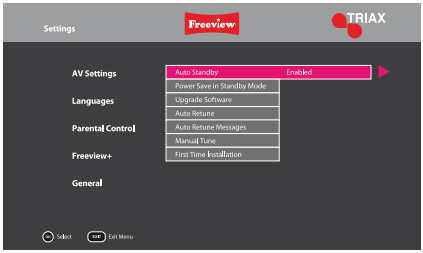
This will reformat your hard disk drive.

NOTE

- This will permanently delete all of your recorded programmes, even if they are protected.
- You can set a PIN number to prevent accidental reformatting of your hard disk drive.

Basic Adjustment

General



Auto Standby

This function allows you to automatically switch the Receiver into standby mode when there is no user activity for 3 hours.

Item	
Enabled (default)	The Receiver will automatically switch into standby mode when there is no user activity for 3 hours.
Disabled	The Receiver will remain on constantly unless switched into standby mode by the user.

Power Save in Standby Mode

This function allows you to control the power saving features of your Receiver.

Item	
Enabled (default)	The Receiver uses a very low amount of power when in standby.
Disabled	Power saving features are disabled.

Upgrade Software

This function allows you to control when software upgrades are installed.

Item	
Automatic	The receiver will automatically install software upgrades when available
Manual	The receiver will display a message allowing you to confirm or cancel the software upgrade

Auto Retune

This function allows you to control when new services (channels) are added and stored on the Receiver.

Item	
Always Start	Whenever new services (channels) are detected, the Receiver will automatically tune and store them.
Always Ask	Whenever new services (channels) are detected, a message will appear on screen. You can choose to tune and store the new services or cancel the auto retune.

Auto Retune Messages

This function controls when retune messages are displayed.

Item	
All	All messages are displayed.
No Minor Messages	Only major messages are displayed.
Information Messages	Only information messages are displayed.
None	No messages are displayed

NOTE

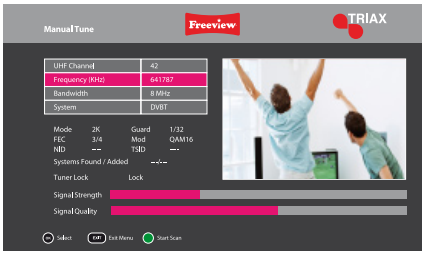
- During the digital switchover, Auto retune messages may be displayed. Follow the on-screen instructions to retune.

Basic Adjustment

Manually tuning channels

Manual Tune

You can manually tune new services after the first time installation has been completed.



1 Press ◀/▶ to select the desired UHF channel.

2 Press ▼ to select 'Frequency' (kHz).

3 Press ◀/▶ to adjust the frequency.

4 Press ▼ to select 'Bandwidth'.

5 Press ◀/▶ to adjust the bandwidth.

6 Press ▼ to select 'System'.

7 Press ◀/▶ to select a system.

8 Press the ● button to start scanning for the specified channel. If the channel is found it will be stored in the Receiver and will be available in the channel list and EPG.

Item	
UHF Channel	Select channel 21-68
Frequency	The frequency of the service (channel) you are manually tuning.
Bandwidth	The bandwidth of the service (channel) you are manually tuning.
System	The type of tuning system. DVB-T = SD (Default) DVB-T2 = HD

NOTE

- You can enter the UHF channel and frequency using the 0-9 numeric buttons.

First Time Installation

This function allows you to perform a first time installation.

1 Press **Menu** on your remote control

2 From the Menu options on screen, select **Settings**

3 Then select **General**

4 Use the navigation buttons to highlight First Time Installation

5 Press **OK** to select.

6 A warning banner will be shown. Press **OK** to proceed or exit to cancel.

7 Press **OK** to scan for new services. You may have to wait a couple of minutes for the scan to complete.

8 You will receive a message to confirm when installation is complete.

9 Press **OK** to start watching TV

What is...?

Digital Text?

Some channels are broadcast with digital text which contains pages of information and entertainment. News, weather, sports information, stock exchange prices and programme previews are among the many services.

Accessing digital text

1 Select a channel which broadcasts digital text.
2 Press TEXT or the ● button.

- Not all channels broadcast digital text.
- You may not be able to receive digital text if you have a poor quality signal.

Buttons for digital text operation

Buttons	Description
▲/▼/◀/▶	Navigate the digital text index page and menu system
Coloured Buttons	Access digital text shortcuts. These are often displayed on the bottom of the page
Numeric Buttons 0-9	Directly select a page
EXIT / TEXT	Exit digital text

Guidance?

Guidance is a parental lock which gives you control against the types of programmes that can be watched and played back on your HD Digital TV Recorder.

Programmes that contain guidance information are marked with a G.

Guidance labels let you know when a programme may include content that is unsuitable for young audiences (e.g violence, sex, drug use, or strong language) or when it may be harmful to view (e.g. contains flashing images).

Guidance is usually used for television programmes broadcast after 9pm.

You can choose wether to PIN protect your programmes and recordings in the Parental settings menu.

Appendix

Troubleshooting

The following conditions in the table below do not always indicate a problem. Please perform the checks described below before calling for service. If the problem cannot be corrected by the use of this manual, remove the mains plug from the power socket and contact the **Helpline on 01443 778908 + Option 5** to obtain service or advice (Normal operator charges apply).

Alternatively you can email us at: **technical@triax.co.uk**.

In the unlikely event of this equipment requiring repair during the guarantee period, you will need to provide proof of purchase to your point of sale. Please keep your purchase invoice or receipt in a safe place.

WARNING
Under no circumstances should you try and repair this product yourself. This will invalidate the guarantee. Do not open the unit as there is risk of electric shock.

Problem	Possible Solution
No power	• Check if you pressed ⏻ on the remote control unit • Is the AC power adapter disconnected? • Check if you pressed ⏻ on the receiver
The receiver cannot be operated	• Turn off receiver at AC adaptor, leave for two minutes and switch back on
Remote control unit does not operate	• Are batteries inserted with polarity (+, -) aligned? • Are batteries worn out? (Replace with new batteries.) • Are you using it under strong or fluorescent lighting? • Is a fluorescent light illuminating the remote control sensor?
Picture format incorrect	• Refer to page 18.
Power is suddenly turned off	• Is auto standby activated? (Page 23)
No picture	• Are connections to external equipment correct? (Page 8) • Is the input signal type selected correctly after connection? (Page 18) • Is the correct output source selected? (Page 18) • Is the antenna connected properly? (Page 9)
No sound	• Is the volume too low? • Check if you pressed mute on the remote control unit. • Check SCART lead is inserted correctly if used.
Freezing / Blocking	• Check Freeview reception information as shown on the cover of this manual. • Refer to page 24 to perform the First Time Installation.

Appendix

Specifications

Item		T2-HD 217 PVR Digital Terrestrial HD TV Recorder	
Tuner / Demodulator	Receiving Signal Type (DVB-T/T2)	Dual Tuner	
		Standard	DVB-T (ETS 300 744) DVB-T2 (ETS 302 755)
		Channel Bandwidth	7, 8 MHz
		Demodulation Type	QPSK, 16QAM, 64QAM, 256QAM
		COFDM System	2K, 8K
		FFT Mode	1K, 2K, 4K, 8K, 16K, 32K
		Code Rate FEC	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
		Guard Internal	1/4, 5/32, 1/8, 5/64, 1/16, 1/32, 1/64, 1/128
System	CPU / Clock	STi7 105/ST40 core, 450MHz	
	Transport	DVB Demultiplexer	
	Flash Memory	16MB	
	System Memory	1 GB x 2 DDR	
	Software	Triax MHEG middleware	
Video	CPU Core	ST231 / 450 MHz	
	Video Standards	MPEG-2 MP@ML and MP@HL, ISO/IEC 13818-2 MPEG-4 AVC MP@L4 and HP@L4.1	
	Field / Frame Rate	50/25 Hz for PAL	
	HD / SD Decoding Capability	Interlaced Mode / Progressive Mode: 1080i, 720p, 576p and 576i	
	Aspect Ratio	16:9 Widescreen 4:3 Letter Box	
	Video Input / Output	Digital Video HDMI with HDCP supported CVBS, R/G/B for TV SCART OUT CVBS for VCR SCART OUT CVBS, R/G/B for VCR SCART IN	
	Output Modes	HD	1080p / 1080i / 720p / 576p Output format changed by specific hot-key (software switchable)
		SD	576i
Teletext / Subtitle	Decoding and display for supporting Closed Captions & Teletext		
Audio	CPU Core	ST231 / 450MHz	
	Audio Standards	MPEG-1 layer I & layer II, MP3 MPEG-2 layer II, Dolby Digital MPEG-2 AAC/AAC+	
	Audio Input / Output	AL/AR for TV SCART OUT (Volume Adjustable) AL/AR for VCR SCART OUT (Fixed Volume) AL/AR for VCR SCART IN AL/AR for one pair RCA connectors (Volume Adjustable) Optical Digital Audio SPDIF	
	Digital Audio SPDIF Output Format	IEC-60958 for PCM data IEC-61937 for Encoded Bitstream Data	
	Sampling Rate	32, 44.1, 48 and 96 KHz	
Connectivity	Serial Port	RS-232 Software Upgrade	
	USB	USB Software Upgrade	

Appendix

Specifications

Item		T2-HD 217 PVR Digital Terrestrial HD TV Recorder
Software Upgrade	Over Air Download	Yes, via DVB-SSU
	USB or RS-232 Port	Yes
Digital Video Recorder	Storage	500 GB Hard Drive
Front Panel	Keypad	3 Keypads: Power, CH Up/Down
	IR Sensor	Yes
	Display	4-LED Linear Display
Rear Panel	RF Input Connector	IEC Type, Female (for PAL), 75 Ohm
	RF Loop Through Output Connector	IEC Type, Male / Female, 75 Ohm
	Stereo (left & right) Audio	Dual SCART for TV/VCR
	Output CVBS, R/G/B	For TV SCART: w/ OSD and Volume adjustable For VCR SCART: w/o OSD and Fixed Volume
	Digital Video & Audio Output	HDMI Connector
	Optical Digital Audio SPDIF	TosLink Interface and RCA
	RJ 45	Ethernet Connection with unique IP address
	Input Voltage	100-240 VAC, 50/60Hz - DC 12V/2A
	Power Consumption	Normal Operation: Max power consumption: 220V-50Hz AC: 8W Standby Mode: Less than 1W with built in power save mode to meet European initiatives EuP
	Accessory	Customer Selectable Remote controller (and Batteries) User Manual HDMI Cable (1.5m)
	EMC / Safety	Compliant to CE
	ATC	HDCP
	Dolby	Dolby Digital Stereo EAC3, Dolby Digital+ (HE AAC)
	Software	Dbook 6.1 compliant Tested to DTG test suite Audio Description, receiver mix MHEG5 HD Dbook 6.1 MHEG5 interaction channel MHEG5 iPlayer ready
Dimensions (H x W xD)	**42 x 257 x 157 (mm)**	

Triax reserves the right to change the specifications without prior notification.
Triax accept no liability in respect of loss arising from errors in or changes to the information provided.

PIN CODE Reminder

NOTE
You need to insert the PIN code here and refer it to the pages in the manual where this is covered.

IMPORTANT
Removal of a lost PIN code could be subject to a service charge.

Appendix

Trademarks

The FREEVIEW service is subject to coverage.
An aerial upgrade may be required.
The FREEVIEW, FREEVIEW+, FREEVIEW HD and FREEVIEW+ HD words and logos are trade marks of DTV Services LTD. DTV Services Ltd 2002, 2008.

This product is capable of receiving and decoding Dolby Digital Plus. Manufactured under licence from Dolby Laboratories. Dolby and the double D symbol are trademarks of Dolby Laboratories.

This product has a HDMI connector so that you can watch high definition TV with a HDMI lead when connected to a HD Ready TV.
HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

A digital box lets you access digital channels that are broadcast in the UK. It uses a digital signal, received through your digital terrestrial aerial and lets you watch it through your existing television.

Information on the software license for this product

Software composition

The software included in this product is comprised of various software components whose individual copyrights are held by TRIAX UK Ltd or by third parties.

Software developed by TRIAX and open source software

The copyrights for the software components and various relevant documents included with this product that were developed or written by TRIAX are owned by TRIAX UK LTD and are protected by the Copyright Act, international treaties, and other relevant laws. This product also makes use of freely distributed software and software components whose copyrights are held by third parties. These include software components covered by a GNU General Public License (hereafter GPL), a GNU Lesser General Public License (hereafter LGPL) or other license agreement.

Obtaining source code

We are unable to answer any questions about the source code for the open source software. The source code for the software components whose copyrights are held by TRIAX are not distributed.

Appendix

End of life disposal

Attention:
Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

A. Information on Disposal for Users (private households)

1. In the European Union

Attention: If you want to dispose of this equipment, please recycle.

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries your local retailer may also take back your old product free of charge if you purchase a similar new one.

* Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

The battery supplied with this product contains traces of Lead.

For EU: The crossed-out wheeled bin implies that used batteries should not be put to the general household waste! There is a separate collection system for used batteries, to allow proper treatment and recycling in accordance with legislation. Please contact your local authority for details on the collection and recycling schemes.

Important Notice

Digital switchover and your TV equipment

By 2012, television services in the UK will go completely digital.

This process is happening TV region by TV region.

To continue using this HD TV receiver during and following digital switchover you will need to **'re-tune'** your T2-HD 217 PVR.

Users of this product will need to 're-tune' on at least 2 different occasions (normally around 1 month apart) when switchover happens in your TV region. Digital UK, the body leading the digital TV switchover, will advise you when to re-tune your receiver on each occasion.
If you do not re-tune your channels when advised to do so by Digital UK, you risk losing some or all of your TV services until you do re-tune.
If you are missing any channels, it may be that they are not available in your area, or that your aerial needs upgrading.

Visit www.digitaluk.co.uk or call Digital UK on 0845 6 50 50 50 to check.

To re-tune your T2-HD217 PVR please follow the procedure below.

1. Press **Menu** on your remote control
2. From the Menu options on screen, select **Settings**
3. Then select **General**
4. Use the navigation buttons to highlight **First Time Installation**
5. Press **OK** to Select.
6. A warning banner will be shown. Press **OK** to proceed or **EXIT** to cancel.
7. Press **OK** to scan for new services. You may have to wait a couple of minutes for the scan to complete.
8. You will receive a message to confirm when re-tune is complete.
9. Press **OK** to watch TV

Terms of Guarantee

This product is supplied with a 12 month manufacturers guarantee from date of original purchase.

In the unlikely event of an issue occurring within this period, please contact your point of sale.
Proof of purchase will need to be supplied.

1 This guarantee only applies to defects due to faulty workmanship or materials.
It does not cover faults or damage caused by (but not limited to) accident, misuse, fair wear and tear, signal related issues, neglect, tampering with the product or repair other than by a facility appointed by Triax UK Ltd.

2 This product is intended for private domestic use only.
The guarantee will not apply if the product is used in the course of a business, trade or profession.

3 The product must be correctly installed and operated in accordance with the instructions contained in this operating manual.

4 Triax UK Ltd disclaims any liability for incidental or consequential damages.

5 This guarantee is in addition to, and does not diminish your statutory or legal rights.

Declaration of Conformity

Company Name: **Triax UK Ltd**

Company Address: **Abergorki Industrial Estate,**
Treorchy, Rhondda-Cynon-Taff
CF42 6DL, UK

Object of the Declaration: **Triax T2-HD 217 PVR, Part Number 305201.**

The object of the declaration described above is in conformity with the requirements of the following documents:

Low voltage directive 2006/95/EC
EMC Directive 2004/108/EC
WEEE Directive 2002/96/EC
Batteries and Accumulators Directive 2006/66/EC
RoHS Directive 2002/95/EC
REACH Regulation 1907/2006/EC
CE Marking Directive 93/68/EEC
Packaging Directive 94/62/EC

The product identified above complies with the relevant EC Directives by meeting the following standards:

BS EN55013:2001+A1:2003+A2:2006 Test Limits for STB Receivers Disturbance Characteristics
BS EN55020:2007 Test Limits for STB Receivers Immunity Characteristics
BS EN60065:2002:A1:2006+A11:2008 Audio and Video Equipment Safety Requirements
BS EN 61000-3-2:2006 Test Limits for EMC Harmonic Currents
BS EN61000-3-3:2008 Test Limits for EMC Voltage Changes and fluctuations

The Declaration of Conformity is made in relation to the associated tests carried out and verified by our suppliers and their authorised test facilities.

Signed for and on behalf of:
TRIAX UK LTD

KEVIN EDWARDS……QUALITY MANAGER.
19th April 2010

Notes

TRIAX

Freeview +HD

www.triax.co.uk

The FREEVIEW service is subject to coverage. An aerial upgrade may be required.
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